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NOTICE OF ALLOWANCE AND FEE(S) DUE

26703

7500

12/01/2009

HARNESS, DICKEY & PIERCE P.L.C. 5445 CORPORATE DRIVE SUITE 200 TROY, MI 48098

EXAMINER

LEVELLE, JASON C

ART UNIT PAPER NUMBER

2463

DATE MAILED: 12/01/2009

| | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|-------------|----------------------|---------------------|------------------|
| • | 10/658,666 | 09/09/2003 | Francis Campana | MP0297 | 1999 |

TITLE OF INVENTION: METHODS AND APPARATUS FOR BREAKING AND RESYNCHRONIZING A DATA LINK

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 03/01/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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| TROY, MI 4809 | 8 | | Γ | | | | (Depositor's name) |
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| 10/658,666 | 09/09/2003 | | Francis Campana | | | MP0297 | 1999 |
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| LEVELLE, | | 2463 | 370-252000 | | | | |
| Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. | | | 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. | | | | |
| PLEASE NOTE: Uni recordation as set forti (A) NAME OF ASSIG | ess an assignee is ident h in 37 CFR 3.11. Comp GNEE | A TO BE PRINTED ON iffied below, no assignee pletion of this form is NO categories (will not be p. | data will appear on the T a substitute for filing a | patent. If an assign n assignment. "Y and STATE OR C | COUNTRY | Y) | ocument has been filed for |
| | are submitted: fo small entity discount j | 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number | | | | | |
| | s SMALL ENTITY state | ıs. See 37 CFR 1.27. | ☐ b. Applicant is no le | | | | |
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| 10/658,666 | 09/09/2003 | Francis Campana | MP0297 | 1999 | | | |
| 26703 75 | 26703 7590 12/01/2009 | | | EXAMINER | | | |
| HARNESS, DICKEY & PIERCE P.L.C. | | | LEVELLE, JASON C | | | | |
| 5445 CORPORATE DRIVE | | | ART UNIT | PAPER NUMBER | | | |
| SUITE 200 TROY, MI 48098 | | | 2463 DATE MAILED: 12/01/200 | 9 | | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1642 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1642 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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| | Application No. | Applicant(s) | | |
| Notice of Allowability | 10/658,666 Examiner | CAMPANA ET AL. Art Unit | | |
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| | JASON LEVELLE | 2463 | | |
| The MAILING DATE of this communication apperature. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to | olication. If not included will be mailed in due course. THIS | e | |
| 1. This communication is responsive to <u>06/29/2009</u> . | | | | |
| 2. X The allowed claim(s) is/are <u>1-3, 5-7, 9-15, 17-21, 23-25, 27 respectively).</u> | 7-29, 31-37, 39-43, 45-51, 53-59, 61- | -65 and 67-68 (renumbered 1-56 | | |
| 3. | e been received. e been received in Application No cuments have been received in this is of this communication to file a reply lient of this application. itted. Note the attached EXAMINER' es reason(s) why the oath or declarate the submitted. son's Patent Drawing Review (PTO- es Amendment / Comment or in the Comment or in the Comment of the drawing the header according to 37 CFR 1.121(comment of BIOLOGICAL MATERIAL in | national stage application from the complying with the requirements S AMENDMENT or NOTICE OF tion is deficient. 948) attached Office action of the back) of the complying with the front (not the back) of the complying in the front (not the back) of the complying in the submitted. Note the | | |
| Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SE/08), Paper No./Mail Date | 5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☒ Examiner's Amenda | (PTO-413), e nent/Comment | | |
| Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. Examiner's Statement of Reasons for Allowance — | | | |
| | 9. Other | | | |
| | /Derrick W Ferris/ Supervisory Patent Exa | aminer, Art Unit 2463 | | |

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone conversation with Jeffrey J. Chapp on November 17, 2009.

The application has been amended **IN THE CLAIMS** as follows:

Claims 8, 16, 22, 30, 38, 44, 52, 60, and 66 are cancelled.

Claim 1 is amended to read:

A resynchronization device for a network device, said network device including a transmitter and a receiver, said resynchronization device comprising:

a detector that detects faulty code groups received by said receiver;

a counter that counts said faulty code groups that are detected during a predetermined period; and

a resynchronization trigger that asserts a resynchronization signal if said counter exceeds a predetermined threshold greater than 1 during said predetermined period, wherein:

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said faulty code groups include idle code groups that match idle code groups generated by said transmitter of said network device; and said resynchronization trigger counts a number of times that said resynchronization signal is asserted without bringing down a link.

Claim 9 is amended to depend on claim 1 instead of claim 8.

Claim 10 is amended to depend on claim 1 instead of claim 4.

Claim 11 is amended to read:

A false carrier resynchronization device for a network device, said network device including a transmitter and a receiver, said false carrier resynchronization device comprising:

a false carrier detector that detects false carriers received by said receiver;

a counter that counts said false carriers that are detected by said false carrier detector during a predetermined period; and

a resynchronization trigger that asserts a resynchronization signal if said counter exceeds a predetermined threshold during said predetermined period.

wherein said resynchronization trigger counts a number of times that said resynchronization signal is asserted without bringing down the link.

Claim 17 is amended to read:

A descrambler resynchronization device for a network device, said network device including a transmitter and a receiver, said descrambler resynchronization device comprising:

a descrambler detector that detects idle code groups that match idle code groups generated by said transmitter of said network device;

a counter that counts said matching idle code groups that are detected by said descrambler detector during a predetermined period; and

a resynchronization trigger that asserts a resynchronization signal if said counter exceeds a predetermined threshold during said predetermined period,

wherein said resynchronization trigger counts a number of times that said resynchronization signal is asserted without bringing down the link.

Claim 23 is amended to read:

A resynchronization device for a network device, said network device including a transmitter and a receiver, said resynchronization device comprising:

detecting means for detecting faulty code groups received by said receiver;

counting means for counting said faulty code groups that are detected during a predetermined period; and

trigger means for asserting a resynchronization signal if said counting means exceeds a predetermined threshold greater than 1 during said predetermined period, wherein:

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said faulty code groups include idle code groups that match idle code groups generated by said transmitter of said network device; and

said trigger means counts a number of times that said resynchronization signal is asserted without bringing down a link.

Claim 31 is amended to depend on claim 23 instead of claim 30.

Claim 32 is amended to depend on claim 23 instead of claim 26.

Claim 33 is amended to read:

A false carrier resynchronization device for network device, said network device including a transmitter and a receiver, said false carrier resynchronization comprising:

false carrier detecting means for detecting false carriers received by said receiver;

counting means for counting said false carriers that are detected by said false carrier detecting means during a predetermined period; and

trigger means for asserting a resynchronization signal if said counting means exceeds a predetermined threshold during said predetermined period,

wherein said trigger means counts a number of times that said resynchronization signal is asserted without bringing down the link.

Claim 39 is amended to read:

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A descrambler resynchronization device for network device, said network device including a transmitter and a receiver, said resynchronization device comprising:

descrambler detecting means for detecting idle code groups that match idle code groups generated by said transmitter of said network device;

counting means for counting said matching idle code groups that are detected by said descrambler detecting means during a predetermined period; and

trigger means for asserting a resynchronization signal if said counting means exceeds a predetermined threshold during said predetermined period.

wherein said trigger means asserts said resynchronization signal a predetermined number of times without bringing down the link.

Claim 45 is amended to read:

A method for resynchronizing a network device, said network device including a transmitter and a receiver, said method comprising:

detecting faulty code groups received by said receiver;

counting said faulty code groups that are detected during a predetermined period;

asserting a resynchronization signal if said count exceeds a predetermined threshold greater than 1 during said predetermined period; and

counting a number of times that said resynchronization signal is asserted without bringing down the link,

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wherein said faulty code groups include idle code groups that match idle code groups generated by said transmitter of said network device.

Claim 53 is amended to depend on claim 45 instead of claim 52.

Claim 54 is amended to depend on claim 45 instead of claim 48.

Claim 55 is amended to read:

A method for providing false carrier resynchronization in a network device, said network device including a transmitter and a receiver, said method comprising:

detecting false carriers received by said receiver;

counting said false carriers that are detected during a predetermined period;

asserting a resynchronization signal if said count exceeds a predetermined

threshold during said predetermined period; and

counting a number of times that said resynchronization signal is asserted without bringing down the link.

Claim 61 is amended to read:

A method for providing descrambler resynchronization in a network device, said network device including a transmitter and a receiver, said method comprising:

detecting idle code groups that match idle code groups generated by said transmitter of said network device;

counting said matching idle code groups that are detected during a predetermined period;

asserting a resynchronization signal if said count exceeds a predetermined threshold during said predetermined period; and

counting a number of times that said resynchronization signal is asserted without bringing down the link.

Allowable Subject Matter

2. Claims 1-3, 5-7, 9-15, 17-21, 23-25, 27-29, 31-37, 39-43, 45-51, 53-59, 61-65 and 67-68 (renumbered 1-56 respectively) are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON LEVELLE whose telephone number is (571)270-5618. The examiner can normally be reached on Monday-Thursday, 8:30-5:00, est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derrick Ferris can be reached on 571-272-3123. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. L./ Examiner, Art Unit 2463

/Derrick W Ferris/ Supervisory Patent Examiner, Art Unit 2463